

LMNED-SP

Lake Pontchartrain, La. & Vicinity Hurricane Protection  
Project - Orleans Parish Outfall Canals - Estimate of E&D  
Required to Prepare a GDM

C/Des Br

C/Hyd & Hydro Br

C/F&M Br

C/Des Svcs Br

6 Jun 83

Mr. Stutts/lm/2614

1. We are in the process of writing a letter report to LMV requesting authority to prepare a GDM for the subject Outfall Canals. A part of the letter report must detail E&D requirements to prepare the GDM. The GDM will of necessity address alternative plans and cost estimates for each of the three Outfall Canals. The plans that we have identified for consideration in the GDM are as follows:

- a. Parallel protection.
- b. Gravity drainage structure with auxiliary pumping at lakefront.
- c. Gravity drainage structures as fronting protection - vertical lift gates.
- d. Gravity drainage structures as fronting protection - vertically pinned control valve.

Over the last several years, each of your offices have contributed design input for preparation of the letter report and consequently a fairly detailed understanding of design requirements has evolved. As most of you are aware, recently, a good deal of emphasis has been placed on alternative d. The estimated cost of this plan is considerably cheaper than alternatives a and b and it has certain advantages over alternative c, which perhaps makes it more acceptable to the New Orleans Sewerage and Water Board. Although plan d will require considerable engineering development for the control valve type gates, it appears at this time that plan d will be the "tentatively" recommended plan. Therefore, in assessing your E&D requirements to prepare a GDM for the three Outfall Canals, you should assume that detailed design effort will be focused on plan d. In determining your E&D requirements, it is requested that you identify any field survey needs so that estimates of cost can be made for these items. Since we are contemplating a physical model study at WES on the butterfly control valve structure Hyd & Hydro Br should identify any field survey requirements needed to support this activity. Des Svcs Br will coordinate with Survey Sec to obtain an estimate of cost for this work. F&M Br should develop an estimate of cost for boring and testing program to develop GDM scope designs for plan d.

2. To insure that all of your estimates of cost are to the same base, please follow the format shown in inclosure 1. Your final estimate should correspond to level 10 shown on inclosure 1. The estimated time required to accomplish your respective work should also be provided in terms of man-months necessary to accomplish the task.

3. Since we are planning to submit the letter report on the Outfall Canals by mid-July 83, your estimates of time and cost should be provided to Des Svcs Br NLT 24 Jun 83. If you have any questions concerning this request, please contact Mr. Stutts ext. 2614.

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THOMAS E. HARRINGTON, JR.  
Chief, Design Services Branch